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EXAMINER
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JERABEK, KELLY L

ART UNIT	PAPER NUMBER
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2612

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/747,680

**Applicant(s)**

FUNSTON ET AL.

**Examiner**

Kelly L. Jerabek

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13-18, 22-24, 26-28, 30-34 and 36-41 is/are rejected.
- 7) ☒ Claim(s) 12, 19-21, 25, 29, 35 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/9/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election with traverse of species 6 in the reply filed on 9/22/2004 is acknowledged. The traversal is on the ground(s) that species 1-3, 4, and 7 are sub-species of the elected species. Applicant also states that all claims in this application are generic to the elected species. The Examiner is therefore withdrawing the restriction requirement made on 8/26/2004.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 1-3, 5-7, 9-10, 13-16, 18, 22, 24, 26-27, 30-33, 36-38, and 40-41**  
**rejected under 35 U.S.C. 103(a) as being unpatentable over Niikawa et al. US**  
**2002/0171747 in view of Miyano US 5,659,357.**

Re claim 1, Niikawa discloses in figures 1-3 a digital camera (1) including a camera body (2) and a CCD (303) for capturing an ambient light multicolored electronic image (page 2, paragraphs 31-36). The camera also includes an operation section for allowing a user to input settings such as white balance, exposure compensation, and scene in order to produce a corrected image and display it along with an original captured image (page 6, paragraphs 123-130). The LCD (10) (user interface) shows and indication of the selected settings such as "white balance: daylight" (figure 16A). Other values for white balance may also be selected such as "tungsten" or "fluorescent" as shown in table 2 (page 5, paragraph 112). These values for white balance are being read as an indication of an illuminant to which a color value is assigned because the white balance settings "tungsten", "fluorescent", and "daylight" represent different illuminants and each one represents a different color value. Although Niikawa discloses different forms of white balancing including different illuminants such as "tungsten, fluorescent, daylight" based on a selection by a user, he fails to disclose a color detector for measuring ambient light to provide a color value and a look-up table having the detected color value assigned to one of a designated illuminant and one or more non-designated illuminants.

Miyano discloses in figure 1 an auto white-balance adjusting device. The auto white-balance adjusting device includes a block representative value calculating circuit (1) that calculates an average value (color value) for all of the pixels (R,G,B) of an electronic input signal (col. 8, lines 37-49). The examiner is reading thus reading the

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block representative value calculating circuit (1) a color detector measuring an ambient light image to provide a color value. The auto white-balance adjusting device also includes a fluorescent lamp block average value calculation circuit (2) and a solar tungsten light block average value calculation circuit (3) and a brightest block average value calculation circuit (9) used to select block representative values corresponding to the color difference signal planes disclosed in figures 3 –5 (col. 8, line 37 – col. 9, line 61). The examiner is reading circuits 2,3, and 9 as a look-up table having a color value assigned to one of a designated illuminant and one or more non-designated illuminants. Additionally, figures 3-5 show that all of the illuminants have a color cast relative to one another. At a third stage weighting factors for the fluorescent lamp average value block, the solar/tungsten light average value block, and the brightest block average value are determined (col. 10, line 5 – col. 12, line 35). The examiner is reading the weighting factors as a means for determining a designated illuminant and a non-designated illuminant. The block with the largest weighting factor is being read as the designated illuminant and the others as the non-designated illuminants. Finally, a white balance adjustment is performed based on the weighting factors (col. 12, lines 36-50). The white balance adjusted produces a mixed signal based on the ratios of combination for the respective light sources (col. 12, lines 50-67). Thus, it can be seen that white balancing the electronic image imparts a color cast relative to the designated illuminant and the non-designated illuminants. Therefore, it would have been obvious for one skilled in the art to have been motivated to include the concept of adjusting white balance based on the detected color value of a captured electronic image as disclosed

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by Miyano in the digital camera including a white balance operation and a display for displaying an indication of the illuminant for which the white balance is being performed. Doing so would provide a means for providing a device for appropriately adjusting the white balance of an image of the subject irradiated by a plurality of light sources or by an unidentified light source (Miyano: col. 2, lines 7-11).

Re claim 2, Miyano states that the block representative value calculating circuit (1) uses the average values of the signals from all pixels (R,G,B) in the block in order to calculate the representative value (col. 8, lines 38-49). Therefore, the block representative value calculating circuit (1) must have 3 subdetectors corresponding to the three colors R,G,B. Also, the color value is trichromatic (R,G,B).

Re claim 3, Niikawa discloses in figures 1-3 a digital camera (1) including a camera body (2) and a CCD (303) for capturing an ambient light multicolored electronic image (page 2, paragraphs 31-36). The camera also includes an operation section for allowing a user to input settings such as white balance, exposure compensation, and scene in order to produce a corrected image and display it along with an original captured image (page 6, paragraphs 123-130). An original captured image (20a) is displayed on the EVF (20) and a corrected image (verification image) (eg: white balanced image) (10a) is displayed on the LCD (10) (page 6, paragraphs 126-127). Although Niikawa discloses different forms of white balancing including different illuminants such as "tungsten, fluorescent, daylight" based on a selection by a user, he

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fails to disclose a color detector for measuring ambient light to provide a color value and a look-up table having the detected color value assigned to one of a designated illuminant and one or more non-designated illuminants.

Miyano discloses in figure 1 an auto white-balance adjusting device. The auto white-balance adjusting device includes a block representative value calculating circuit (1) that calculates an average value (color value) for all of the pixels (R,G,B) of an electronic input signal (col. 8, lines 37-49). The examiner is reading thus reading the block representative value calculating circuit (1) a color detector measuring an ambient light image to provide a color value. The auto white-balance adjusting device also includes a fluorescent lamp block average value calculation circuit (2) and a solar tungsten light block average value calculation circuit (3) and a brightest block average value calculation circuit (9) used to select block representative values corresponding to the color difference signal planes disclosed in figures 3 –5 (col. 8, line 37 – col. 9, line 61). The examiner is reading circuits 2,3, and 9 as a look-up table having a color value assigned to one of a designated illuminant and one or more non-designated illuminants. Additionally, figures 3-5 show that all of the illuminants have a color cast relative to one another. At a third stage weighting factors for the fluorescent lamp average value block, the solar/tungsten light average value block, and the brightest block average value are determined (col. 10, line 5 – col. 12, line 35). The examiner is reading the weighting factors as a means for determining a designated illuminant and a non-designated illuminant. The block with the largest weighting factor is being read as the designated illuminant and the others as the non-designated illuminants. Finally, a white balance

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adjustment is performed based on the weighting factors (col. 12, lines 36-50). The white balance adjusted produces a mixed signal based on the ratios of combination for the respective light sources (col. 12, lines 50-67). Thus, it can be seen that white balancing the electronic image imparts a color cast relative to the designated illuminant and the non-designated illuminants. Therefore, it would have been obvious for one skilled in the art to have been motivated to include the concept of adjusting white balance based on the detected color value of a captured electronic image as disclosed by Miyano in the digital camera including a white balance operation and a display for displaying an indication of the illuminant for which the white balance is being performed. Doing so would provide a means for providing a device for appropriately adjusting the white balance of an image of the subject irradiated by a plurality of light sources or by an unidentified light source (Miyano: col. 2, lines 7-11).

Re claim 5, as shown in figures 3-5 of Miyano the fluorescent white signal area, the solar/tungsten white signal area, and the brightest block signal area all correspond to different color temperatures. It is well known that the color temperature of daylight is 5500 degrees Kelvin, the color temperature of fluorescent light is 4500 degrees Kelvin and the color temperature of tungsten light is 2900 degrees Kelvin. Therefore, depending on the weighting values for each of the illuminants the relative color casts may correspond to a reduction in correlated color temperature.

Re claim 6, see claim 5.



Re claim 7, see claim 3. The auto white-balance adjusting device includes a block representative value calculating circuit (1) that calculates an average value (color value) for all of the pixels (R,G,B) of an electronic input signal (col. 8, lines 37-49).

Re claim 9, see claim 3.

Re claim 10, see claim 5.

Re claim 13, Miyano states that the electronic image inputted to the block representative value calculating circuit (1) is pixilated and the block representative value calculating circuit (1) samples pixels of the electronic image (col. 8, lines 38-49).

Re claim 14, Miyano states that the image signal inputted into the block representative value calculating circuit (1) is an (R,G,B) signal (col. 8, lines 38-49). The brightest block searching circuit (8) chooses the R,G,B components of which are larger than predetermined threshold values (col. 9, lines 26-61).

Re claim 15, the CCD (303) (array imager) disclosed by Niikawa generates an image signal having red, green, and blue color components (page 2, paragraph 42). Therefore, since the CCD generates color signals it has an R,G,B color filter.

Re claim 16, see claim 13.

Re claim 18, Niikawa discloses in figures 1-3 a digital camera (1) including a camera body (2) and a CCD (303) for capturing an ambient light multicolored electronic image (page 2, paragraphs 31-36). The camera also includes an operation section for allowing a user to input settings such as white balance, exposure compensation, and scene in order to produce a corrected image and display it along with an original captured image (page 6, paragraphs 123-130). An original captured image (20a) is displayed on the EVF (20) and a corrected image (verification image) (eg: white balanced image) (10a) is displayed on the LCD (10) (page 6, paragraphs 126-127). Although Niikawa discloses different forms of white balancing including different illuminants such as "tungsten, fluorescent, daylight" based on a selection by a user, he fails to disclose a color detector for measuring ambient light to provide a color value and a look-up table having the detected color value assigned to one of a designated illuminant and one or more non-designated illuminants.

Miyano discloses in figure 1 an auto white-balance adjusting device. The auto white-balance adjusting device includes a block representative value calculating circuit (1) that calculates an average value (color value) for all of the pixels (R,G,B) of an electronic input signal (col. 8, lines 37-49). The examiner is reading thus reading the block representative value calculating circuit (1) a color detector measuring an ambient light image to provide a color value. The auto white-balance adjusting device also includes a fluorescent lamp block average value calculation circuit (2) and a solar

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tungsten light block average value calculation circuit (3) and a brightest block average value calculation circuit (9) used to select block representative values corresponding to the color difference signal planes disclosed in figures 3 –5 (col. 8, line 37 – col. 9, line 61). The examiner is reading circuits 2,3, and 9 as a look-up table having a color value assigned to one of a designated illuminant and one or more non-designated illuminants. Additionally, figures 3-5 show that all of the illuminants have a color cast relative to one another. Also, Miyano states that the solar tungsten light white signal area includes images that are irradiated by sunlight or a tungsten lamp (col. 7, lines 6-14). Thus, daylight may be one of the illuminants. At a third stage weighting factors for the fluorescent lamp average value block, the solar/tungsten light average value block, and the brightest block average value are determined (col. 10, line 5 – col. 12, line 35). The examiner is reading the weighting factors as a means for determining a designated illuminant and a non-designated illuminant. The block with the largest weighting factor is being read as the designated illuminant and the others as the non-designated illuminants. Finally, a white balance adjustment is performed based on the weighting factors (col. 12, lines 36-50). The white balance adjusted produces a mixed signal based on the ratios of combination for the respective light sources (col. 12, lines 50-67). Thus, it can be seen that white balancing the electronic image imparts a color cast relative to the designated illuminant and the non-designated illuminants. Therefore, it would have been obvious for one skilled in the art to have been motivated to include the concept of adjusting white balance based on the detected color value of a captured electronic image as disclosed by Miyano in the digital camera including a white balance

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operation and a display for displaying an indication of the illuminant for which the white balance is being performed. Doing so would provide a means for providing a device for appropriately adjusting the white balance of an image of the subject irradiated by a plurality of light sources or by an unidentified light source (Miyano: col. 2, lines 7-11).

Re claim 22, see claim 3.

Re claim 24, Miyano states that the electronic image inputted to the block representative value calculating circuit (1) is pixilated and the block representative value calculating circuit (1) samples pixels of the electronic image (col. 8, lines 38-49).

Re claim 26, Niikawa states that a corrected image (10a) is displayed on an LCD (10) (page 6, lines 126-127). The Examiner takes **Official Notice** that it is well known in the art that a captured image undergoes some calibration operation before it is displayed on an LCD of the camera. Therefore, it would have been obvious for one skilled in the art to have been motivated to calibrate a captured image prior to displaying it on the LCD.

Re claim 27, see claim 3.

Re claim 30, Miyano states that the electronic image inputted to the block representative value calculating circuit (1) is pixilated and the block representative value calculating circuit (1) samples pixels of the electronic image (col. 8, lines 38-49).

Re claim 31, Niikawa states that a corrected image (10a) is displayed on an LCD (10) (page 6, lines 126-127). The Examiner takes **Official Notice** that it is well known in the art that a captured image undergoes some calibration operation before it is displayed on an LCD of the camera. Therefore, it would have been obvious for one skilled in the art to have been motivated to calibrate a captured image prior to displaying it on the LCD.

Re claim 32, the CCD (303) (array imager) disclosed by Niikawa generates an image signal having red, green, and blue color components (page 2, paragraph 42). Therefore, since the CCD generates color signals it has an R,G,B color filter.

Re claim 33, Miyano states that the electronic image inputted to the block representative value calculating circuit (1) is pixilated and the block representative value calculating circuit (1) samples pixels of the electronic image (col. 8, lines 38-49).

Re claim 36, Niikawa discloses in figures 1-3 a digital camera (1) including a camera body (2) and a CCD (303) for capturing an ambient light multicolored electronic image (page 2, paragraphs 31-36). The camera also includes an operation section for

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allowing a user to input settings such as white balance, exposure compensation, and scene in order to produce a corrected image and display it along with an original captured image (page 6, paragraphs 123-130). An original captured image (20a) is displayed on the EVF (20) and a corrected image (verification image) (eg: white balanced image) (10a) is displayed on the LCD (10) (page 6, paragraphs 126-127). Therefore, two copies of the electronic image are provided. Also, depending on the operations performed by the user the two images may be color balanced differently (page 6, paragraphs 126-127). Although Niikawa discloses different forms of white balancing including different illuminants such as "tungsten, fluorescent, daylight" based on a selection by a user, he fails to disclose a color detector for measuring ambient light to provide a color value and matching the color value to one of a plurality of reference illuminants.

Miyano discloses in figure 1 an auto white-balance adjusting device. The auto white-balance adjusting device includes a block representative value calculating circuit (1) that calculates an average value (color value) for all of the pixels (R,G,B) of an electronic input signal (col. 8, lines 37-49). The examiner is reading thus reading the block representative value calculating circuit (1) a color detector measuring an ambient light image to provide a color value. The auto white-balance adjusting device also includes a fluorescent lamp block average value calculation circuit (2) and a solar tungsten light block average value calculation circuit (3) and a brightest block average value calculation circuit (9) used to select block representative values corresponding to the color difference signal planes (color temperatures) disclosed in figures 3 –5 (col. 8,

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line 37 – col. 9, line 61). The examiner is reading circuits 2,3, and 9 as a look-up table having a color value assigned to one of a plurality of reference illuminants. At a third stage weighting factors for the fluorescent lamp average value block, the solar/tungsten light average value block, and the brightest block average value are determined (col. 10, line 5 – col. 12, line 35). Finally, a white balance adjustment is performed based on the weighting factors (col. 12, lines 36-50). The white balance adjusted produces a mixed signal based on the ratios of combination for the respective light sources (col. 12, lines 50-67). Thus, it can be seen that an image may be color balanced to the correlated color temperature of an assigned reference illuminant. Therefore, it would have been obvious for one skilled in the art to have been motivated to include the concept of adjusting white balance based on the detected color value of a captured electronic image as disclosed by Miyano and providing the white balanced image as the first copy image displayed on the EVF (20) of digital camera capable of displaying two images simultaneously as disclosed by Niikawa. Doing so would provide a means for providing a device for appropriately adjusting the white balance of an image of the subject irradiated by a plurality of light sources or by an unidentified light source (Miyano: col. 2, lines 7-11).

Re claim 37, Niikawa illustrates a display/correction mode of a digital camera in figures 16A and 16B. EVF (20) and LCD (10) display original and corrected images depending on the status of the display mode (page 6, paragraphs 123-130). Therefore,

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it can be seen that first and second copies of a taken image are displayed in selective alternation depending on the status of the display mode.

Re claim 38, Niikawa states that in the digital camera (1) an original captured image (20a) is displayed on EVF (20) and a corrected image (10a) is displayed on LCD (10). A user presses an OK button (32) to input settings in order to complete the input operation (page 6, paragraphs 126-130). Therefore, the examiner is reading the time between originally displaying the original image on the EVF (20) and the pressing of one of the OK buttons (32) as the time period following the capturing and thus at the end of the time period (a.k.a. when the OK button is pushed) a second copy is shown. When the user presses OK button a new corrected image reflecting the correction of the pressed button is shown, therefore it can be seen that a second copy (newly corrected image) is displayed on the LCD (10) at the end of the time period (page 6, paragraph 128).

Re claim 40, Niikawa also states that before the OK button (32) is pressed and after one of the correction buttons (U,D,L,R) is pressed a corrected image (10a) is displayed on the LCD (10) to be contrasted with the original image (20a) displayed on the EVF (20) (page 6, paragraph 126-127). Therefore, the examiner is reading this feature as showing the second copy (10e) during the time period.



Re claim 41, Niikawa states that a corrected image (10a) is displayed on an LCD (10) (page 6, lines 126-127). The Examiner takes **Official Notice** that it is well known in the art that a captured image undergoes some calibration operation before it is displayed on an LCD of the camera. Therefore, it would have been obvious for one skilled in the art to have been motivated to calibrate a captured image prior to displaying it on the LCD.

**Claims 4, 11, 17, 23, 28, and 34 rejected under 35 U.S.C. 103(a) as being unpatentable over Niikawa et al. in view of Miyano and further in view of Higashihara et al. US 6,160,581.**

Re claim 4, Niikawa in view of Miyano disclose all of the limitations according to claim 3 above. However, Niikawa in view of Miyano fails to distinctly state that the camera also includes an archival capture media color balanced to a designated illuminant.

Higashihara discloses in figure 3 a single lens reflex camera including an image sensor (10) to convert an object image into an electrical signal and an exposure part causing a film (F) (storing an archival image in a storage media) loaded on the camera to be exposed to light (col. 3, lines 50-65). Additionally, Higashihara also states that a white balance adjustment is made with respect to the color characteristic (eg. tungsten, daylight) of the film (col. 11, lines 1-10). Therefore, it would have been obvious for one skilled in the art to have been motivated to include the concept of a camera including an

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exposure part causing a film to be exposed to light and an image sensor to convert an object image into an electrical signal as disclosed by Higashihara in the camera capable of white balance and inverse white balance processing as disclosed by Niikawa in view of Miyano. Doing so would provide a means for displaying a stored electrical signal so that the state of an object image obtained at the time of an exposure of a silver-halide film can be confirmed (Higashihara: col. 1, lines 24-32).

Re claim 11, Niikawa in view of Miyano disclose all of the limitations according to claim 9 above. However, Niikawa in view of Miyano fails to distinctly state that the camera also includes both a film capture unit, an electronic imager, and a shutter release to direct an ambient light image to the film capture unit and the electronic imager.

Higashihara discloses in figure 3 a single lens reflex camera including an image sensor (10) to convert an object image into an electrical signal and an exposure part causing a film (F) (storing an archival image in a storage media) loaded on the camera to be exposed to light, and a shutter (S) to direct the ambient light image to both the image sensor (10) and the film (F) (col. 3, lines 50-65). Therefore, it would have been obvious for one skilled in the art to have been motivated to include the concept of a camera including an exposure part causing a film to be exposed to light and an image sensor to convert an object image into an electrical signal as disclosed by Higashihara in the camera capable of white balance and inverse white balance processing as disclosed by Niikawa in view of Miyano. Doing so would provide a means for displaying

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a stored electrical signal so that the state of an object image obtained at the time of an exposure of a silver-halide film can be confirmed (Higahsihara: col. 1, lines 24-32).

Re claim 17, see claim 11.

Re claim 23, see claim 4.

Re claim 28, see claim 4.

Re claim 34, see claim 11.

**Claim 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Niikawa et al. in view of Miyano and further in view of Suzuki US 5,691,772.**

Re claim 8, Niikawa in view of Miyano disclose all of the limitations of claim 3 above. However Niikawa in view of Miyano fail to distinctly state that the camera further includes an ambient light sensor mounted to the body of the camera that is operatively connected to the color detector and independent of the imager.

Suzuki discloses in figure 3 a white balance adjustment device for use with a camera including an imaging unit (103) an a color measurement unit (130). The color measurement unit (130) receives light from the camera surroundings and uses the detected light values to perform a white balance operation (col. 4, lines 7-65). Thus, it

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can be seen that the color measurement unit (130) (ambient light sensor) is independent of the imaging unit (103). Therefore, it would have been obvious for one skilled in the art to have been motivated to include the white balance adjustment device for color balancing an image based on a readout of an ambient light detector as disclosed by Suzuki in the camera capable of white balancing based on a color detector and displaying the color balanced image as disclosed by Niikawa in view of Miyano. Doing so would provide a means for providing a white balance adjustment device which is capable of determining the type of light source used to illuminate a photographic subject and performing a white balance in accordance with the determination (Suzuki: col. 2, lines 48-52).

**Claim 39 rejected under 35 U.S.C. 103(a) as being unpatentable over Niikawa et al. in view of Miyano and further in view of Fujii US 6,686,965.**

Re claim 39, Niikawa in view of Miyano disclose all of the limitations of claim 38 above. However Niikawa in view of Miyano fail to distinctly state that the first image is deleted following the time period.

Fujii discloses in figure 1 an electronic camera including a display (9). Image signals are read from memory (6) in response to pressed reproduction button (11a) in order to display images on the display (9). Additionally, image signals may be erased from memory (6) in response to pressed erasing button (11b) (col. 3, lines 20-30).

Therefore, it would have been obvious for one skilled in the art to have been motivated

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to include erasing button (11b) for erasing image signals from a memory as disclosed by Fujii in the camera capable of displaying multiple images as disclosed by Niikawa in view of Miyano. Doing so would provide a means for allowing a user to erase an unwanted image from memory (col. 3, lines 28-30).

***Allowable Subject Matter***

**Claims 12, 19-21, 25, 29, and 35 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.**

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fail to anticipate or render obvious the following technical features as recited in the highlighted claims:

Re claims 12, 29, and 35, the prior art fails to teach or suggest "...wherein one or more of said reference illuminants are each equal to a correlated color temperature of an illumination source partially normalized by a predetermined photofinishing color cast reduction for that illumination source".

Re claims 19-21, the prior art fails to teach or suggest "...wherein said decreasing of said color temperature of said electronic image is proportional to and

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opposite a white balance correction of said electronic image from the color temperature of said assigned reference illuminant to daylight”.

Re claim 25, the prior art fails to teach or suggest “...further comprising changing said ambient light between said capturing and said measuring of said ambient light”.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hirasawa et al. (US 2002/0085099) discloses an image sensing apparatus for sensing moving and still images.

Hafele et al. (US 5,926,213) discloses a device for correcting the tone of color pictures recorded by a video camera.

Takei (US 6,108,037) discloses an image pickup apparatus in which the white balance controller contains a circuit to calculate the color temperature from the color signals.

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Ohta et al. (US 6,493,027) discloses an apparatus for still and moving image recording and control thereof.

Suzuki et al. (US 4,918,519) discloses a color image sensing apparatus having a color balance adjustment.

Takagi (US 5,710,948) discloses a camera system with a color temperature meter.

Inoue (US 5,710,954) discloses a camera system having a function for photographing an image linked to an electronic image.

### ***Contacts***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelly L. Jerabek whose telephone number is 703-305-8659. The examiner can normally be reached on Monday - Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for submitting all Official communications is 703-872-9306. The fax phone number for submitting informal communications such as drafts, proposed amendments, etc., may be faxed directly to the Examiner at 703-746-3059.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLJ

  
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